

=> d his

(FILE 'HOME' ENTERED AT 08:58:01 ON 07 JUL 2003)

FILE 'REGISTRY' ENTERED AT 08:58:20 ON 07 JUL 2003

L1 1 S 145985-68-8  
L2 0 S 145985-69-5  
L3 1 S 145985-69-9  
L4 1 S 256234-11-4  
L5 1 S 256234-12-5

FILE 'CA' ENTERED AT 09:00:38 ON 07 JUL 2003

S 145985-68-8/REG# OR 145985-69-9/REG# OR 256234-11-4/REG# OR

FILE 'REGISTRY' ENTERED AT 09:01:34 ON 07 JUL 2003

L6 1 S 256234-12-5/RN

FILE 'CA' ENTERED AT 09:01:35 ON 07 JUL 2003

L7 2 S L6

FILE 'REGISTRY' ENTERED AT 09:01:35 ON 07 JUL 2003

L8 1 S 256234-11-4/RN

FILE 'CA' ENTERED AT 09:01:35 ON 07 JUL 2003

L9 1 S L8

FILE 'REGISTRY' ENTERED AT 09:01:36 ON 07 JUL 2003

L10 1 S 145985-69-9/RN

FILE 'CA' ENTERED AT 09:01:36 ON 07 JUL 2003

L11 3 S L10

FILE 'REGISTRY' ENTERED AT 09:01:37 ON 07 JUL 2003

L12 1 S 145985-68-8/RN

FILE 'CA' ENTERED AT 09:01:37 ON 07 JUL 2003

L13 3 S L12

L14 4 S L13 OR L11 OR L9 OR L7

L15 1031506 S LIPASE OR ESTERASE OR HYDROLASE OR PROTEASE OR ENZYM?

L16 2 S L15 AND L14

FILE 'USPATFULL' ENTERED AT 09:03:05 ON 07 JUL 2003

L17 156324 S L15

L18 0 S 145985-68-8 OR 145985-69-9 OR 256234-11-4 OR 256234-12-5

L19 12708 S DIOXOLAN?

L20 2949 S L19 AND L17

L21 30321 S DIASTEREOMER OR STEREOISOMER OR ANOMER?

L22 1487 S L21 AND L20

L23 1341 S L21 (P) L17

L24 98 S L23 AND L19

FILE 'WPIDS' ENTERED AT 09:21:00 ON 07 JUL 2003

L25 1743 S DIOXOLAN

L26 81653 S L15

L27 44 S L25 AND L26

L28 4166 S NUCLEOSIDE

L29 6 S L27 AND L28

FILE 'USPATFULL' ENTERED AT 09:27:46 ON 07 JUL 2003

FILE 'WPIDS' ENTERED AT 09:27:50 ON 07 JUL 2003

=> log hold

**BEST AVAILABLE COPY**

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.50	174.92
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.48

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 09:28:11 ON 07 JUL 2003

**BEST AVAILABLE COPY**

=> d ind 2

L1 ANSWER 2 OF 8 CA COPYRIGHT 2003 ACS  
CC 33-8 (Carbohydrates)  
Section cross-reference(s): 7  
ST chymotrypsin catalyzed hydrolysis dioxolane mol modeling; dioxolane  
benzyloxymethylcarboxylate protease mediated resoln; enzymic resoln  
dioxolane  
IT Hydrolysis  
(enzymic; protease-mediated sepn. of cis and trans diastereomers of  
(R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)  
IT Molecular modeling  
Resolution (separation)  
(protease-mediated sepn. of cis and trans diastereomers of  
(R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)  
IT 154907-62-7, Optimase  
RL: CAT (Catalyst use); USES (Uses)  
(L660; protease-mediated sepn. of cis and trans diastereomers of  
(R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)  
IT 9004-07-3, .alpha.-Chymotrypsin  
RL: CAT (Catalyst use); USES (Uses)  
(bovine pancreas; protease-mediated sepn. of cis and trans  
diastereomers of (R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me  
ester)  
IT 9026-00-0, Cholesterol esterase  
RL: CAT (Catalyst use); USES (Uses)  
(bovine; protease-mediated sepn. of cis and trans diastereomers of  
(R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)  
IT 9002-04-4, Thrombin  
RL: CAT (Catalyst use); USES (Uses)  
(human plasma; protease-mediated sepn. of cis and trans diastereomers  
of (R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)  
IT ~~145985-68-8P~~ ~~145985-69-9P~~  
RL: BPN (Biosynthetic preparation); RCT (Reactant); BIOL (Biological  
study); PREP (Preparation); RACT (Reactant or reagent)  
(protease-mediated sepn. of cis and trans diastereomers of  
(R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)  
IT ~~256234-11-4P~~ ~~256234-12-5P~~  
RL: BPN (Biosynthetic preparation); SPN (Synthetic preparation); BIOL  
(Biological study); PREP (Preparation)  
(protease-mediated sepn. of cis and trans diastereomers of  
(R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)  
IT 9000-81-1, Acetylcholine esterase 9001-62-1, Lipase 9001-75-6, Pepsin  
9001-92-7, Protease 9012-37-7, Acylase 9014-01-1, Subtilisin  
9016-18-6, Esterase 51377-41-4, Cutinase  
RL: CAT (Catalyst use); USES (Uses)  
(protease-mediated sepn. of cis and trans diastereomers of  
(R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)  
IT 34994-50-8, Resorufin sodium salt  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(protease-mediated sepn. of cis and trans diastereomers of  
(R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)  
IT 1152-14-3P, Resorufin acetate  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(protease-mediated sepn. of cis and trans diastereomers of  
(R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)  
IT 9073-78-3, Thermolysin  
RL: CAT (Catalyst use); USES (Uses)  
(type X; protease-mediated sepn. of cis and trans diastereomers of  
(R,S)-benzyloxymethyl-(S)-carboxylic acid dioxolane Me ester)

=> d bib ab ind 1

**BEST AVAILABLE COPY**

(stereoselective synthesis of nucleoside analogs)

IT 9001-62-1, Lipase 9001-92-7, Protease 9004-02-8, Lipoprotein lipase  
9004-07-3, .alpha.-Chymotrypsin 9013-79-0, Esterase 9014-01-1,  
Subtilisin 9026-00-0, Cholesterol esterase  
RL: CAT (Catalyst use); USES (Uses)

(stereoselective synthesis of nucleoside analogs)

IT 145918-75-8P  
RL: PRP (Properties); PUR (Purification or recovery); SPN (Synthetic  
preparation); PREP (Preparation)

(stereoselective synthesis of nucleoside analogs)

IT 192581-80-9P 192581-83-2P 288162-71-0P  
RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic  
preparation); PREP (Preparation); RACT (Reactant or reagent)

(stereoselective synthesis of nucleoside analogs)

IT 312-84-5, D-Serine 14631-20-0D, N-Acetylcytosine, persilated  
127657-97-0 192581-99-0 288162-72-1 288162-73-2  
RL: RCT (Reactant); RACT (Reactant or reagent)

(stereoselective synthesis of nucleoside analogs)

IT 6000-40-4P, D-Glyceric acid 18289-89-9P, D-Glyceric acid methyl ester  
192581-70-7P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(stereoselective synthesis of nucleoside analogs)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

**BEST AVAILABLE COPY**

L1 ANSWER 1 OF 8 CA COPYRIGHT 2003 ACS  
 AN 133:163121 CA  
 TI Stereoselective synthesis of nucleoside analogues  
 IN Cimpoia, Alex; **Janes, Lana**; Kazlauskas, Romas  
 PA Biochem Pharma Inc., Can.  
 SO PCT Int. Appl., 80 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000047759	A1	20000817	WO 2000-CA144	20000211
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP	1151133	A1	20011107	EP 2000-904756	20000211
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP	2002538780	T2	20021119	JP 2000-598654	20000211
PRAI	US 1999-119756P	P	19990211		
	US 1999-119885P	P	19990212		
	WO 2000-CA144	W	20000211		
OS	MARPAT 133:163121				
AB	The present invention provides a process for making stereochem. pure dioxolane nucleoside analogs. The process includes the use of hydrolytic enzymes for sepg. .beta. and .alpha. anomers from an anomeric mixt. represented by formula (I) or formula (II) wherein W is benzyl or benzoyl and R1 is selected from the group consisting of C1-6 alkyl and C6-15 aryl.				
IC	ICM C12P041-00				
CC	16-2 (Fermentation and Bioindustrial Chemistry)				
ST	stereospecific nucleoside analog enzyme synthesis resolu				
IT	Nucleoside analogs				
	RL: BPN (Biosynthetic preparation); PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (stereoselective synthesis of nucleoside analogs)				
IT	256234-12-5P	288162-70-9P			
	RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation) (stereoselective synthesis of nucleoside analogs)				
IT	188292-13-9P	280138-66-1P	280138-67-2P	288162-74-3P	288162-75-4P
	288162-76-5P	288162-77-6P			
	RL: BPN (Biosynthetic preparation); PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (stereoselective synthesis of nucleoside analogs)				
IT	288162-78-7P	288162-79-8P	288162-80-1P	288162-81-2P	288162-82-3P
	288162-83-4P	288162-84-5P	288162-85-6P	288162-86-7P	
	RL: BPN (Biosynthetic preparation); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (stereoselective synthesis of nucleoside analogs)				
IT	288162-69-6				
	RL: BPR (Biological process); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)				

**BEST AVAILABLE COPY**